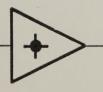
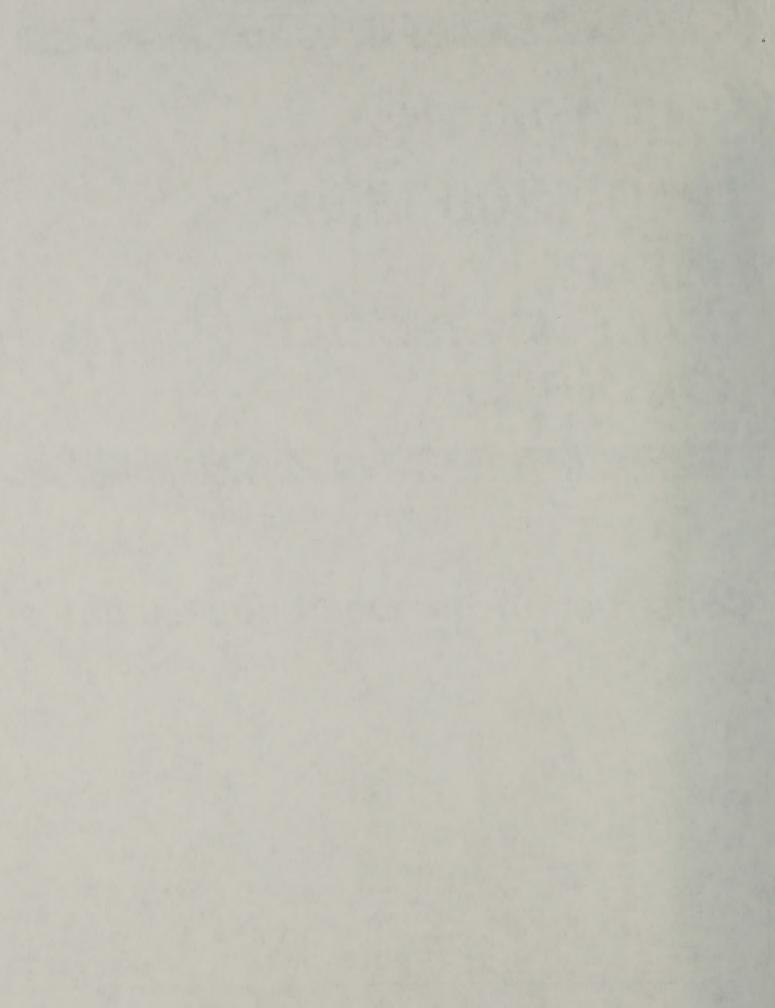
SHF 1240 K 1240-1300 MHz LINEAR TRANSMIT/RECEIVE CONVERTER

Construction and Operation Guide

SHF Systems P.O. Box 666 Nashua, NH 03061 (603) 673-1573





The five inductors on the board are formed using a #33 or a 7/64 drill bit and the provided #24 wire. Two, two turn inductors are required in the LO input circuit, and one five turn coil in each i-f network. The final eight turn choke isolates the MSA-0404 or 1104 output stage from the power supply.

Three power input pads are provided. Depending on application, the LO multiplier will probably always receive power during operation, allowing the rx/tx strips to be activated as desired.

OPERATION

The SHF-LO local oscillator is required, you probably received it as part of this kit. I have found the best way to package the units is to tack solder the 3" x 5" LO on the groundplane side of the converter board, groundplane to groundplane. Use a short piece of RG-174 to couple the LO out and SHF 1240 LO input ports. No more than 20 mW (+13 dBm) of two meter drive is required for full output. If you cannot back down the output of your i-f rig, a suitable 50 ohm pad should be employed. You must provide any desired i-f and antenna switching. The SHF-1240 K is an ideal candidate for remote or mast mount applications, as there is nothing to tune or periodically adjust.

CREDIT

This circuit, and the associated local oscillator, were designed by Richard Campbell, KK7B. All components, unless obviously misused, are guaranteed for 90 days and will be unconditionally replaced if deemed defective.

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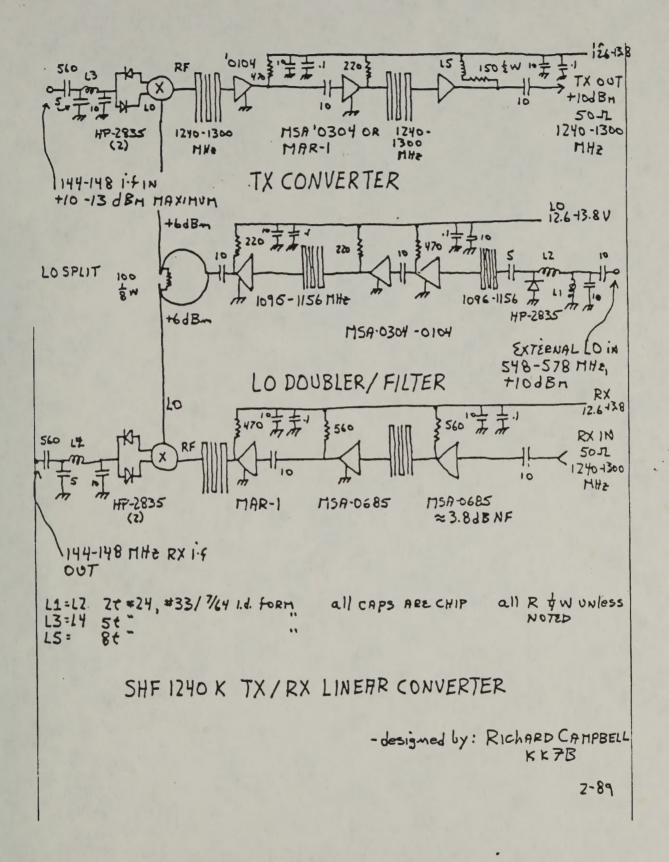
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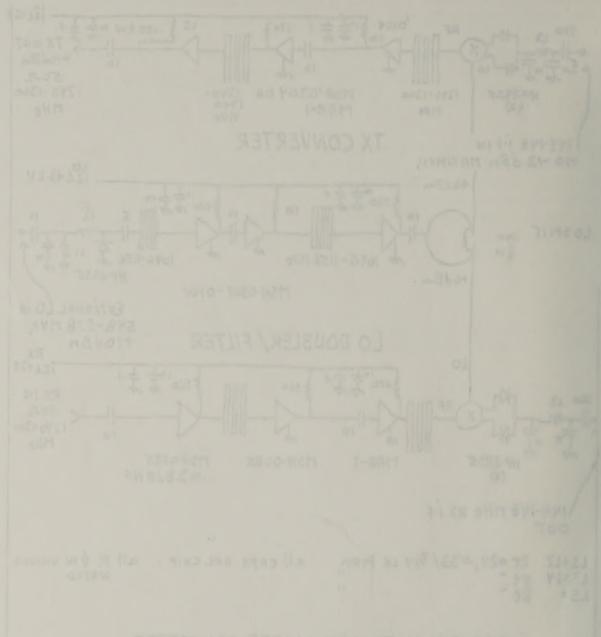
OPERATION

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SHE 1240 X TXY EX LINERS CONVERTER

-designed by Richard Campach

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